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MEDICAL UNIVERSITY OF SOUTH CAROLINA



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STATE DOCUMENTS

ANNUAL REPORT 1985-1986

Printed Under The Direction Of The
State Budget And Control Board

Dear Governor Riley and The General Assembly:

At no time in our State's history have we experienced more exciting prospects for improving health care services for the citizens of our State. In biomedical discovery, in comprehensive patient care and in training skillful health professionals, we stand at the threshold of significant medical advancements.

Over the past 25 years the Medical University has planned, initiated and pursued development of disciplinary programs which have propelled this institution into a scientifically based, research oriented, subspecialty health care center with regional, national and international recognition. The rapidly accelerating momentum of this development is very much in evidence. Since 1974 we have witnessed nearly a three-fold increase in our sponsored research, a four-fold increase in our earned patient revenues and more than a ten-fold increase in private contributions. This year's statewide kick-off of the Pursuit of Excellence \$10.95 million capital campaign met with remarkable acceptance. In less than six months, we were able to achieve \$6 million in gifts and pledges toward our goal. Indeed, the Medical University is prepared to provide leadership to bring the benefits of "cutting edge" health sciences for South Carolinians.

Some of the most important planning initiated four years ago and now in progress is our University's center concept, combining the strengths of clinicians and researchers and basing their interdisciplinary work in central, unified groups. We propose these programs in close cooperation with the State's other major research campuses. Strengthened research effectively coordinating the State's research resources in all areas in addition to medicine has significant implications for our economic future, not to mention the specific benefits for the well-being of individuals living in our state and beyond.

The establishment of a base for progress always seems to take so long. However, once the base is in place and momentum has been achieved, there is an urgent necessity to press forward. Only by expanding the base and pushing back the frontiers can we achieve a maximum return on our investment and constantly renew opportunities for all citizens of South Carolina. In this regard, I believe the Medical University of South Carolina has achieved a unique potential.

James B. Edwards, D.M.D.
President

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THE COLLEGE OF MEDICINE

This year can be generally described as a period of introspection for the medical school. The first reflective event was an evaluation of our academic environment by a selected group of educators. The stage was set for the "Academic Task Force" with a faculty "needs" assessment (survey) and the ensuing thirteen in-depth studies of the concerns identified in the survey (it is noted that a student "needs" survey pre-dated the faculty survey). The studies, involving many faculty and students, were presented to members of the task force as background information and as points of departure for their study process. The findings of the task force were presented to the faculty in an open forum in April 1986. At the same time that the Academic Task Force was working on its evaluation of the College of Medicine and the University, the faculty were preparing two "self studies" for a simultaneously scheduled site visit by the Liaison Committee on Medical Education (LCME) and the Southern Association of Colleges and Schools (SACS). The "self studies", required in preparation for the accreditation process, involved hundreds of faculty and students in a complex set of study committees and subcommittees. Visits of the LCME and SACS were scheduled simultaneously to efficiently utilize faculty time and effort. The recommendations presented in these reports offer pathways to change and improvement for the College of Medicine.

The focus of both faculty and administration was upon the development of interdisciplinary centers that will lead to institutional adaptation to the changing environment. Among those under development or active consideration were: 1) a Molecular Genetics and Structural Biology Center, 2) a Cancer Institute, 3) a Heart Institute, 4) a Geriatric and Rehabilitation Institute (National Medical Enterprises funded) and, 5) an Arthritis and Liver Institute. Each of the proposals has led to the exploration of new funding mechanisms and new patterns for organizing faculty and staff.

There continues to be a good relationship between the State's two schools of medicine. The regularly scheduled meetings of the Joint Board provide a constant reminder of the need for cooperation.

The appointment of a Dean of the College and a Chairman for the Department of Obstetrics and Gynecology were priority recruiting efforts for 1985-86. Both positions were finalized and the individuals will join the faculty in FY 86-87.

The National Resident Matching Program (NRMP) each year seeks to match graduating medical students with internships and residencies across the United States. Given the large number of graduates and the limited number of desirable internships and residency positions, competition is great. This year 75.6 percent of the students applying for positions were matched nationally.

At MUSC 92 percent of our students were matched. All students were eventually successful in securing a position.

The College budget experienced a growth approximating \$6 million, i.e., over FY 1984-85, with gains in State and Federal support. The \$5.2 million increase coming from the State was \$2.8 million more than the FY 1984-85 growth.

In 1985-86, the College of Medicine experienced a net full-time faculty gain of 62. Part-time faculty increased by 28 over 1984-85. The College of Medicine faculty produced 853 publications in 1985-86.

The College of Medicine has admitted 165 students each year since 1971. However, 1985-86 witnessed the beginning of the planned reduction to 125 students in annual increments of 10. Thus, 155 students were admitted in 1985-86. In 1985-86, 151 undergraduate medical students completed their course requirements for the M.D. degree. Some 288 students completed programs of graduate medical education (residencies) at MUSC and in the Statewide Consortium of Community Teaching Hospitals.

COLLEGE OF DENTAL MEDICINE

Two important goals reached for the year consisted of restructuring of administrative duties in an effort to move toward a more efficient operation, and improving teaching methodologies.

While most of the College's activities are carried out within South Carolina, a faculty member lectured in Pakistan and another is editor of an international journal. A faculty member on sabbatical taught dentistry in Taiwan.

A Director of Continuing Education has been appointed and introduced new "mini" courses that were given by the College's faculty in Greenville, Columbia and Charleston. A total of 37 courses were given throughout South Carolina. A patient-care coordinator was appointed in an effort to improve comprehensive care for patients and to help students better utilize their clinic time. A revised preventive maintenance/recall program was initiated. Special efforts were made to improve infection control measures. Extramural assignments were reviewed and modified in an effort to give the students the best educational experiences possible.

The three areas in which this College continues to carry on outstanding research are: 1) saliva and its components, 2) dental materials and 3) implants. A joint effort between Clemson and MUSC was initiated and will be expanded.

There were 116 applicants for 48 places in the freshman class. This is considerably better than the national average. The senior class scored in the top 20 percent on Part II of the National Boards and all graduating seniors who took the South Carolina State Dental Board passed.

Students were very active in the ADA and NDA affairs and each hosted a regional meeting. Students worked on the March of Dimes Telerama, Muscular Dystrophy Telerama and helped raise money for the MUSC Children's Hospital.

COLLEGE OF GRADUATE STUDIES

It was the decision of Graduate Council last year to consider all three Graduate Record Examination scores, verbal, quantitative and analytical when ranking an applicant. The minimum total score is now 1600 rather than 1100. Those students awarded assistantships who actually matriculated had an average cumulative GPA of 3.60 and total GRE score of 1816. In the College's nine programs, 100 are currently enrolled in doctoral programs, 15 are enrolled in Master's programs. Twenty-six post doctoral trainees were sponsored for five months or more. The Medical Scientist Training Program, currently has 14 students enrolled. In May, the second student was graduated from this program since its inception in 1978.

Travel support was provided for nine students to attend six national meetings where they presented posters or papers. This not only exposed the students to the critical environment of professional scientists, but also helped to further the research image of the Medical University of South Carolina throughout the country. Additionally, at least partial support was provided for six visiting foreign faculty.

The Summer Undergraduate Research Program for college students continued in 1986. Since its inception, 86 students have participated, seven of whom have enrolled at the University.

This year five full summer research faculty fellowships of \$5,000 each were awarded to college faculty of biology, chemistry, and mathematics departments to undertake research projects with MUSC faculty in established laboratories in the Departments of Biochemistry, Biometry, Ophthalmology and Physiology.

Department of Biometry

The Department of Biometry taught 42 courses to 665 students in five of the University Colleges. During the past year, the Department had 38 graduate students and conferred five Master of Science degrees and one Doctor of Philosophy degree. The faculty made 17 presentations before learned societies, authored or co-authored 48 publications and 5 abstracts; of these two were chapters in books. A number of Biometry activities with the Charleston Consortium of Higher Education continued.

MUSC and the College of Charleston continue to exchange faculty and students. The Department received support from several training and research grants and contracts totaling \$688,682. During the year the Biometry faculty has provided computer and statistical support for more than 304 independent projects within and outside the University.

Office of Protection from Research Risks

In July 1985, the name of the Human Research Division was changed to the Office for Protection from Research Risks (OPRR) whose primary purpose is to ensure that all research activities at MUSC are conducted in compliance with applicable State and Federal regulations and laws. OPRR provides the necessary assurance that such activities provide protection for all subjects and are beneficial to society as well. The OPRR received an on-site inspection in January 1986 by the Food and Drug Administration whose report revealed that the IRB and the OPRR were in complete compliance with applicable regulations and were appropriately administered.

In February 1986, the OPRR Director was elected as the Southeastern representative to ARENA, and the Chairman of MUSC IRB for Human Research was elected as an alternate. This is a national organization concerned with ethical issues related to the conduct of research.

Statistics for 1985-86:

808 Active Grants (361 are Human Research Reviews Only)

405 New IRB Reviews (including expedited)

607 Continuing Reviews (including 329 on-site IRB reviews)

COLLEGE OF PHARMACY

Two departments within the College had their names changed to more appropriately represent their areas of responsibility. The Department of Pharmacy Practice and Administration became the Department of Community Pharmacy Practice and Administration and the Department of Clinical and Institutional Pharmacy became the Department of Hospital Pharmacy Practice and Administration. The extensive recruitment for the Ph.D. Pharmaceutical Sciences continued throughout 1985-86. The result was 18 applicants with six accepted for the 1986-87 academic year.

The contracts and grants received by the faculty increased from \$259,000 in 1984-85 to \$545,000 in 1985-86. This increase of over 100 percent in direct research productivity plus an increase from \$26,000 received in gifts (1984-85) to \$96,000 (1985-86) enabled the College to meet obligations to the students and University.

There was a twenty-two student increase over the 1984-85 enrollment or 12 percent. Our recruitment program continues to be successful with a 17 percent increase in completed applications and an entering G.P.A. of 2.97.

In May 1986, 44 students were awarded the Bachelor of Science degree and 18 the Doctor of Pharmacy degree.

During the year, 195 awards were made totaling \$414,047. A total of 51 articles were published in scientific and professional journals by 21 faculty members, one faculty member was involved in the writing of two textbooks, and 106 seminars were presented throughout the State and nation on all aspects of professional and scientific pharmacy.

COLLEGE OF NURSING

The following goals were met during the year:

A Dean of the College of Nursing was appointed as of 7/1/86.

Addressed the recommendations of the national League for Nursing Board of Review concerning curriculum adjustment, faculty development, and research productivity.

Continued to provide a high quality program for the preparation of Baccalaureate degree nurses.

Continued sequential development of the Graduate Program to meet contemporary needs for leaders in education, administration in nursing services, and clinical practice.

Continued to meet the educational needs of Registered Nurses desirous of additional preparation through satellite and on-campus offerings.

Continued Nurse-Midwifery offering at the Certificate level and planning for a Graduate track.

Continued efforts to enhance student life in the College of Nursing.

Increased the visibility of the College of Nursing in the State, region, and Nation through excellence in education, community service, and research. The table below quantifies the efforts expended:

Publications

Under Review	22
In Print	17

Presentations

Local	28
State	9
Regional	17
National	14

Elected Offices Held - Professional

Local	2
State	3
Regional	1
National	1

Consultations Provided 7

Research 11

COLLEGE OF HEALTH RELATED PROFESSIONS

The Board of Trustees of the Medical University of South Carolina approved changing the name of the College of Allied Health Sciences to the College of Health Related Professions. This name change reflects the diversity of program opportunities in laboratory professions, health information and management professions, patient treatment professions and patient contact professions involving sophisticated technical instrumentation. Additionally, this action reflects a transition from basically on-the-job hospital based training programs in 1966 to an entirely upper division unit offering baccalaureate, master's and advanced certificate curricula.

Several programmatic changes of importance occurred during the reporting period:

1. The entering class in Physical Therapy was increased from 40 to 50 students, reflecting both the strong demand for physical therapists locally, statewide and nationally and the large number of qualified applicants seeking admission to the program.

2. A decision was made to delete the basic entry level professional track in Dental Hygiene as of 1987, after accepting a final group in the Fall, 1986. In the future, already prepared dental hygienists with associate degree backgrounds will be admitted to the existing post-professional baccalaureate track.

3. The Orthoptic/Ophthalmic Technology advanced certificate curriculum was placed on a one-year moratorium (1986-87) in order to recruit a department head to direct the activities. This small unit will again admit two to four students in the Fall, 1987.

Student recruitment held up well during the past year with little change in quantity or quality. The College did not experience an overall decline in applicant numbers as reported by many institutions across the nation.

Graduates continued to perform well on national boards, licensure, registry and certification exams, generally performing in the upper half when compared on a national basis. Most graduates had multiple choices for positions locally, statewide and nationally.

OFFICE OF RESEARCH AND SPONSORED PROGRAMS

Research at MUSC has expanded during the fiscal year, a trend that began in the mid 1970's and has continued even during times of entrenchment among granting agencies. NIH support (direct and indirect) has increased from slightly over \$3 million in 1977 to approximately \$13 million in 1986. Total extramural dollars has increased from \$7.2 million to \$18 million during the same period.

The Federal government remains the primary source of dollars for research but, the University, while increasing its competitiveness for federal dollars, has also pursued private corporate sources with success as indicated by the increase in corporate research projects to 17% of the total research dollars. During the period 1980-1986, corporate sponsored research increased from approximately \$350,000 to \$2.5 million. This is a reflection of the determination of faculty and administration to broaden the base of research funding and is a healthy sign for the future of research at MUSC.

153 members of the faculty received 217 awards from all sources. Most of the faculty were from the College of Medicine (88%), but research efforts in the other Colleges, particularly Pharmacy, are increasing. The addition of faculty in pharmaceutical sciences, and the presence of the Pharmaceutical Development Center in the College of Pharmacy is already bringing additional income from industrial sources. The establishment of the National Institute for Nursing and the recruitment of a College of Nursing dean, with emphasis on increasing research activity in that College, should work together to assure more research activity and funding in the College of Nursing.

The College of Medicine as indicated, and as expected, is already leading the activity in research. In 1985-1986, one-third of the faculty of that College received a new award for research. The five leading departments are: Pharmacology, Medicine, Biochemistry, Pediatrics and Neurosurgery, which together accounted for 55% of the total dollars for research in the University. Impressive increases in funding have occurred in the Department of Anatomy which has gone from \$125,000 in 1985 when Dr. DiBona became chairman, to more than \$600,000 in 1986, and an estimated \$1,500,000 in 1987. The success of these departments reflects the success of the efforts of the faculty and administration of the Colleges and the University to recruit excellent scientists to the MUSC team and continues the trend started in the early 70's.

The faculty and administration have now begun to shift the direction of the quest for increased research activity and support towards the development of centers. President Edwards has joined with his colleagues at Clemson and USC to propose a Research Investment Act for a state incentive to provide major funding for the development of economically advantageous research efforts at the three state research universities. For MUSC the incentive will be directed toward disease oriented center development. The three which have the highest priorities are in order, the Center for Molecular Genetics and Structural Biology, the Cancer Center, and the Heart Center.

The Center for Molecular Genetics and Structural Biology will serve as a core facility for the Cancer and Heart Centers and for all other centers at MUSC. The Cancer Center will focus on molecular interactions with the goal of elucidating the molecular basis of selected diseases and exploiting the new knowledge to design improved therapies and techniques of detection and prevention of disease. The Center has already established interinstitutional collaborative research in two areas.

In prospect is a site visit from The Howard Hughes Medical Research Institute for the possible funding of portions of the Center for Molecular Genetics and Structural Biology.

The Cancer Center, one of the three top priorities, has also been included as part of the Presidents' Research Investment Act

and is proceeding in its development of alternate sources of funding.

There are two components of the Heart Center - a clinical component and a molecular biology component. The clinical component is being developed by the Departments of Medicine, Surgery, and Pediatrics and will have dedicated clinical space for the treatment of cardiac disease and hypertension. The molecular biology component is being implemented by the Departments of Medicine, Pediatrics and Pharmacology which have together identified laboratory space, received money for renovation from NIH (# 1 priority in the nation) and recruited faculty to ensure that this new research effort will be successful.

Other centers are in various stages of development and will, if successful, add to the strength of research, clinical care, and education at the institution.

OFFICE OF UNIVERSITY REGISTRAR AND DIRECTOR OF ADMISSIONS

The Office of the University Registrar and Director of Admissions continued providing service to the six Colleges of the University, to their students, faculty, and administration, and to the Administration of the University.

University Enrollment 1985-86

Post Doctoral Fellows, Residents, and Interns

Post Doctoral Fellows		53
Residents and Interns		
Residents and Interns - Medicine	378	
Residents - Dental Medicine	14	
Residents - Pharmacy	12	
TOTAL - MUSC Residents and Interns		404
S.C. Consortium Hospital Residents and Interns		
Anderson **	24	
Charleston *	38	
Columbia	144	
Florence **	18	
Greenville	103	
Greenwood **	14	
Spartanburg	52	

TOTAL - S.C. Consortium Hospital Residents & Interns	355
ON CAMPUS - Residents and Interns	404
OFF CAMPUS - Residents and Interns	355
<u>TOTAL - Post Doctoral Fellows, Residents and Interns</u>	<u>812</u>
<u>College of Graduate Studies</u>	
Doctor of Philosophy	86
Master of Sciences	16
<u>TOTAL</u>	<u>102</u>
<u>College of Medicine</u>	
First Year	163
Second Year	158
Third Year	158
Fourth Year	152
<u>TOTAL</u>	<u>631</u>
<u>College of Dental Medicine</u>	
First Year	49
Second Year	41
Third Year	49
Fourth Year	55
<u>TOTAL</u>	<u>194</u>
*Included in MUSC Residents	
**Statewide Family Practice Residency System Only	
<u>College of Pharmacy</u>	
Doctor of Pharmacy	
First Year	17
Second Year	16
<u>TOTAL</u>	<u>33</u>
Baccalaureate Program	
Third Year	63
Fourth Year	55
Fifth Year	47
<u>TOTAL</u>	<u>165</u>
<u>TOTAL - College of Pharmacy</u>	<u>198</u>

College of Nursing

Master of Science in Nursing	27	
Special Students - Master of Science in Nursing	4	
TOTAL - Master of Science in Nursing		31
Baccalaureate Program		
Second Year	69	
Third Year	107	
Fourth Year	133	
TOTAL - Baccalaureate		309
Nurse Midwifery (Certificate Program)		33
<u>TOTAL - College of Nursing</u>		<u>373</u>

College of Health Related Professions

Master in Health Sciences	77	
Special Students - Master in Health Sciences	28	
TOTAL - Master in Health Sciences		105
Postbaccalaureate Certificate Program		12
Baccalaureate Programs	305	
Special Students - Baccalaureate	13	
TOTAL - Baccalaureate		318
<u>TOTAL - College of Health Related Professions</u>		<u>435</u>

Non-Degree Program

Unclassified		63
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ENROLLMENT SUMMARY

Post Doctoral Fellows	53	
MUSC Residents and Interns	404	
Consortium Hospital Residents and Interns	355	
TOTAL - Post Doctoral Fellows, Residents and Interns		812
MUSC Colleges		
Graduate Studies	102	
Medicine	631	
Dental Medicine	194	
Pharmacy	198	

Nursing	373
Health Related Professions	435
Non-Degree Program (Unclassified)	63
TOTAL - Colleges	1996
<u>GRAND TOTAL</u>	<u>2808</u>

**Degrees and/or Certificates Conferred
July 1, 1985 - June 30, 1986**

House Staff

Certificate

Residents - Fellows & Medicine	36
Interns - Medicine	22
Residents - Dental Medicine	7
Residents - Pharmacy	12
S. C. Consortium Hospital Interns and residents	118
TOTAL	195

Graduate Studies

Doctor of Philosophy	12
Master of Sciences	6
TOTAL	18

Medicine

Doctor of Medicine	151
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Dental Medicine

Doctor of Dental Medicine	58
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Pharmacy

Doctor of Pharmacy	18
Bachelor of Sciences	39

TOTAL	57
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Nursing

Master of Science in Nursing	12
Bachelor of Science in Nursing	115
Nurse Midwifery (Certificate)	15

TOTAL	142
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Health Related Professions

Cytotechnology	6
Dental Hygiene	8
Extracorporeal Circulation Technology	8

Medical Record Administration	12
Medical Technology	16
Occupational Therapy	19
Physical Therapy	33
Radiologic Technologies	17
Respiratory Therapy	3
Anesthesia for Nurses (Certificate)	8
Master in Health Sciences	41
Orthoptics (Certificate)	3
TOTAL	174
<u>GRAND TOTAL</u>	<u>795</u>

UNIVERSITY STUDENT PROGRAMS

This office sponsors and promotes extracurricular student activities, recreational athletics, and cultural and social events as well as providing counseling and other student services.

The Intramural Program involved more than one-third of the student body in one or more of the six or seven sports offered.

The Chamber Concert Series was continued with increased participation by students. Student/faculty/staff art and photography exhibits were held in conjunction with two of the concerts.

The Brown Bag Concerts offered broader variety of performing art forms in an informal, noontime setting, including folk music, choral, and individual instrumentalists.

The Film Group has shifted the emphasis in their programming from the recent commercial movies to films with artistic merit, foreign films, and earlier American classics. In addition to members of the MUSC community, this series has attracted a loyal audience of people in the community interested in film.

The trend toward more service projects and more student involvement in volunteer work continues to grow on every level, i.e., university, college, and individual students. Two volunteer activities which continue to present a good image for the university are: Superhealth 2000 (a volunteer organization comprised of students from all colleges provides medical and health information to the community) and the Student Health Coalition (a clinical experience involving nursing, dental medicine, and medicine students whereby students set up health screening clinics in rural communities under the supervision of a physician).

In response to expressed student needs, more emphasis was placed on individual counseling and developing mental health and academic support resources and services.

The Student Financial Aid Office offered approximately \$6 million a year to students, plus, Graduate Traineeships, Veteran's Benefits and Institutional Employment Programs. The office provides services to approximately 80 percent of the student body.

STUDENT EMPLOYEE HEALTH SERVICES

The Student/Employee Health Services provide primary medical care for all MUSC students and care for employees with occupational injuries.

Pre-employment screenings and OSHA assessments continue to be performed within this division. This year, emphasis has been placed on meeting DHEC requirements for communicable disease prevention for both students and employees alike.

There were 12,072 total visits to the Student/Employee Health Services during 1985-86. This represents an increase of 1,336 visits or a 12 percent increase over the previous year.

Employees accounted for 1,405 service related injuries during 1985-86. There were a total of 125 lost time accidents this year compared to 113 in 1984-85.

The Student/Employee Health Services performed 379 OSHA physicals during the fiscal year. Each physical requires two visits to the Health Services for a total of 758 OSHA related visits. This represents an increase of 24 percent activity in this area.

The Health Services performed 1,283 pre-employment physicals, an increase of 388 exams or a 43 percent increase over fiscal year 1984-85.

Sixty students were evaluated and/or treated by the Student Health Psychiatry Service.

After providing optimal care for students and employees, the Student/Employee Health Service achieved its goal of cost containment and fiscal accountability by consolidation of services with the Internal Medicine section using community resources (e.g. acquisition of measles vaccine for 802 student immunizations through the Health Department at no cost) and monitoring all operations to increase productivity and efficiency.

Many MUSC medical students as well as students from other schools of medicine participated in a one month elective rotation with Student/Employee Health Services.

LIBRARIES AND LEARNING RESOURCE CENTERS

During 1985-86, 6,186 monographs, bound journals and audiovisuals were added to the collection; 2,830 current journals

and serial publications were received. Total holdings numbered 164,718 items on June 30, 1986.

Major efforts went into the installation of the integrated library information system which provides the base for the South Carolina Health Information Network, the first statewide biomedical information network in the United States.

A total of 113,821 books, journals, and audiovisual items circulated, an increase of 23 percent.

The Reference Staff responded to 8,730 reference queries. A total of 7,660 database accesses were made.

Students in the Colleges of Medicine, Dental Medicine, Pharmacy, Nursing and Health Related Professions were instructed in the use of the library. For the first time, the freshman medical students were taught as part of their Biomedical Computing class.

The University's local library Information System which debuted this year provides online access to the Library's collection of over 165,000 volumes. MiniMedline provides access to articles in over 300 of the Library's 2500 journal titles for the current calendar year and two previous years.

During the year, a Collection Development Manual was drafted to provide guidelines for future growth.

The Waring Historical Society

The Associate Curator restored over 100 of the library's books, and the Waring Library funds paid for the professional restoration of 30 additional volumes. The staff of the library participated in the formation of CALM: A Committee for Disaster Preparedness (an organization of Charleston Archives, Libraries and Museums). Ninety-four individuals utilized the facilities to research a variety of topics. The library was able to purchase several rare books and pamphlets to add to its collection, and the Library Society received a number of interesting and valuable gifts for the library. The Waring Library Society ended its fiscal year with 284 members, an all-time high in membership.

OFFICE OF EDUCATIONAL SERVICES

In 1985-86, as a result of administrative reorganization, the Office of Educational Services (OES) was expanded to include Television Production Services, the Health Communications Network and the MUSC Conference Center. This expansion was in keeping with the goals of the Office to provide educational support services for the faculty of the University in all aspects of the instructional program.

In addition to the traditional faculty development activities of workshops, seminars and personal consultation the OES faculty and staff expanded their involvement into courses and training activities on a statewide basis through the Health Communications Network.

The strength of the faculty development activities continued to be in personal consultation with the teaching faculty. OES faculty were directly involved with course directors or instructors in twenty-four courses in five colleges.

In May, the office co-sponsored a "Teaching Conference" at Seabrook Island with the College of Medicine. Thirty-one faculty from the College attended. Following the Conference, OES helped to establish a series of support groups for faculty interested in improving their teaching skills.

In 1985-86, OES staff assisted the faculty in the development of 16 videotaped instructional units. Several of these units included more than one program. The OES also assisted the South Carolina Lung Association, Medical University Hospital Volunteer Services, Department of Personnel Services, and the Division of Continuing Education to develop A-V instructional/training materials. A self instructional unit was developed for clinical nutrition.

The OES continues to participate in the Health Sciences Consortium.

ACADEMIC INFORMATION MANAGEMENT

The first full year for the Office of the Assistant to the Academic Vice President for Academic Information Management included coordinating the activities of the academic group in Information Resource Management and assisting the Medical University Library in the computerization of all holdings and the introduction of the miniMedlineTM system with 320 medical journals, indexed with abstracts, for the past three years (1983, 84, 85). This system will be available to all health professionals in South Carolina in the fall of 1986. A supplemental grant was submitted to the National Library of Medicine in February, 1986 to request funding to expand the number of journals that we will be able to hold within miniMedline.

This office has been actively involved throughout the year in the selection process of the hospital information system. The evaluation process is ongoing with a target date of October, 1986, for a final selection.

A student computer literacy course was initiated in Maymester, 1986. This 20 hour computer literacy course was required of all first year medical students and was positively received. This model was presented to an assembled group of over 60 medical schools at the University of Tennessee in June, 1986.

In process are two manuscripts to be submitted to medical education journals describing this course.

**MUSC MEDICAL CENTER
Statistical Summary
For the 12 months ending June 30, 1985**

Licensed Beds	510
Beds in Use	394
Bassinets	76

Total	470
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Patient Days	
General Nursing Units	95,733
Special Care Units	8,816
Nursery	23,094

Total	127,643
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Average Census	349.7
Average Census-Nursery	63.2
Average Length of Stay	6.6
Average Length of Stay-Nursery	4.9
Percent Occupancy	75.7
Patient Admissions	19,678

Clinic Visits:

MUH Clinic	46,271
Cancer Clinic	4,224
Cardiac Clinic	1,671
Family Medicine	23,319
Eye Clinic	6,440
Private Diagnostic Clinic	49,096
Primary Care Unit	14,239

Total	145,260
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Surgical Procedures	7,990
Number of Newborns	3,163
Laboratory Medicine Procedures	627,843
Anatomical Pathology Procedures	74,131
Diagnostic Radiology Procedures	92,137
Therapeutic Radiology Procedures	20,998
Nuclear Medicine Procedures	3,041
Physical Therapy Procedures	52,647
Number of Deaths	369

Pounds of Laundry	1,131,546
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Number of Employees	2,499
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OFFICE OF MINORITY AFFAIRS/AFFIRMATIVE ACTION

The Office of Minority Affairs continues in its efforts to upgrade health care delivery to minorities by minority practitioners in all areas of the health professions. This is being achieved by increasing the applicant pool of qualified minorities at the Medical University of South Carolina; enhancing the academic performance of minorities matriculating at MUSC; and implementing the University's Affirmative Action Plan. Workshops were held to apprise hiring officials at MUSC of the new federal requirements.

Activities included:

Student Recruitment Retention. Recruitment visits were made to all accredited S. C. colleges. On trips made outside the state, emphasis was placed on those institutions with a high concentration of native South Carolinians to continue efforts to reclaim or to recruit them to the Medical University of South Carolina.

Charleston High School Tutorial Program. A community based tutorial program in conjunction with Morris Brown Church was the first of its kind sponsored by the Medical University and was met with great interest and enthusiasm by the students.

Summer Academic Enrichment Program. Twenty-five area high school students were given an overview of the health sciences and given guidance in the selection of their career choice. Ten outstanding students received significant experience working with MUSC faculty preceptors for a six-week period.

Summer Health Careers Program. In its thirteenth year, there were 25 participants.

Tutorial Assistance. Tutorial assistance was provided to 20 minority students.

Counseling. Ten students received structural one-on-one counseling.

UNIVERSITY FINANCIAL OPERATIONS

Major accomplishments of this division:

Received an unqualified audit report for the fiscal year ended June 30, 1985.

Incurred cost savings of \$5.5 million through Procurements's competitive bid process (Palmetto Pavilion, pharmaceuticals, solutions, etc.).

Procurement certification levels were raised as a result of the 1985 Procurement Audit.

Implemented the Management Science of America (MSA) software programs - Budgetary Control, Accounts Payable, and General Ledger.

Phase two of MSA-Inventory Management for Central Stores has enabled Procurement to reduce the inventory to \$1

million with stock out percentage being reduced from 15 percent to 3 percent.

Produced a study of educational cost incurred in the Medical University Hospital for use by the Commission on Higher Education.

Negotiated with the Commission on Higher Education a funding formula for the Medical University Hospital.

Training and other prerequisites nearly completed for personal certification for Medical Center and University Procurement Manager were completed.

ADMINISTRATIVE AFFAIRS

Planning and Institutional Studies

The University's planning process this year included development of a planning booklet, **The MUSC Planning Process**, containing the year's planning schedule, the Planning for Excellence documents for the departments, and an overview of key institutional issues.

The Office of Planning instituted and/or contributed to a number of projects including:

- an operations review of the bookstore
- development of a procedure for analyzing administrative productivity
- the site visit and final report of the Academic Task Force
- the establishment of an Academic Program Review Process
- preparation for the accreditation review by the Southern Association of Colleges and Schools
- updating MUSC Master Plan
- feasibility study of relocating the financial and procurement functions
- planning for renovation of laboratory animal medicine facilities

- planning and review of the allocation of space
- establishment of the University Planning Support Group

Human Resources Management

The Department of Human Resources Management has placed emphasis on expansion of services, increasing efficiency and increasing productivity. Employees were offered an option of coverage by two Health Maintenance Organizations (HMO's) in addition to the traditional Blue Cross/Blue Shield coverage. During this year activities conducted by the Employment Section included:

Interviews	2,590
Referrals	1,983
Vacancies Filled	772
Promotions	185
Temp. Pool Hires	184
Temp. Pool Requests Filled	312

Additionally:

- Policies concerning hiring process, Workman's Compensation, overtime and compensatory time were revised, published and distributed throughout the University.
- The Staff Development and Training Coordinator conducted over 100 training programs during this fiscal year.
- The Department of Human Resources Management staff focused their efforts upon a wide variety of other activities such as administration of the professional liability and student insurance programs, unemployment claims proceedings, retirement counseling and the Summer Youth Employment Program.

Information Resources Management

An Executive Director of Information Resources Management (IRM) was appointed on March 1, 1986. The IRM Department installed a new telephone system on campus, implemented the MSA interactive accounting system, installed the VAX 11/785 computer system and the Georgetown University's Library Information System software on the VAX 11/785, installed system software on the IBM 3081D to provide users with more interactive capabilities, and

assisted users in the procurement, installation, training and maintenance of 300 IBM-type microcomputers. IRM is presently functionally divided into five user-support areas including Academic Systems, Office Systems, Small Systems Support, Project Management and Planning, and Operational and Administrative Systems. They implemented and supported information systems for the academic sector, provided improved technical support for faculty and student use of computational facilities for education and research, and provided faculty and students with the hardware and software tools needed to access and analyze data.

Physical Plant

Major construction projects included the Children's Hospital, parking lot paving, hazardous material storage, parking garage, psychiatric hospital, renovations to 268 Calhoun Street, lab animal medicine renovations, signage program, magnetic resonance imaging facility and shared research facility in the Basic Science Building.

The Work Order Section processed approximately 3,163 work requests. The Engineering Section completed 49 work orders and 37 project designs and drawings. Other operations included the EMC System (Energy Monitoring Control), maintenance and operation, safety, training, in-house university construction, and university housekeeping.

Public Safety

Since merging the Public Safety Departments of the Medical University of South Carolina and the College of Charleston in 1985, there have been significant advancements in preventing crime, protecting life and property and solving crime; together with the ability to interact effectively with students, faculty, and staff. The escort service provided to the female students, staff and visitors has created a feeling of confidence in Public Safety on the campuses of MUSC and the College of Charleston.

Parking Management

In 1985-86 the University parking system included 2,738 parking spaces: 1,526 reserved spaces for employees, 331 reserved spaces for students, 60 metered spaces, 32 handicapped spaces, 310 free public spaces served by shuttle bus, 21 service spaces, 15 ambulance/admitting spaces, 30 free patient spaces at the SCN bank building, 388 public pay spaces in the MUSC Medical Center parking garage and the 25 guest spaces.

Gross revenue from all sources for 1985-86 was \$554,816:

Reserved Parking	\$322,599
MUSC Medical Center Parking	202,948
Parking Meters	14,102
Fines	4,802
Lost keys	365
	<hr/>
	\$544,816

Visitor/patient parking garage revenue increased 7 percent.

An on-line parking decal system was completed and put into use. A fully-automated annual re-registration system was made ready for the 1986-87 period.

In order to continue to meet employee parking needs, parking spaces were leased from the Summerall Center, St. Francis Xavier Hospital and the High School of Charleston. Security services and improved bus service were implemented.

UNIVERSITY RELATIONS

Development

In 1985-86, a record \$3,394,265 in private support was received from 3,929 donors. The Society of 1824 membership reached an all time high with 295 gifts of \$1,000 or more. The Children's Hospital Fund received \$143,900 from fund-raising and the second annual Graduate Student Association phon-a-thon resulted in a 42 percent increase in dollars pledged. The Planned Giving Program also continued successfully and seven bequests were received.

AUCTUS, our bi-annual publication of the Alumni and Development Office, continued to be well received, and the Vienna Choir boys Concert in January proved quite successful for the Health Sciences Foundation.

Alumni Affairs

The Office of Alumni Affairs received two national honors for its programs in 1985-86. The Council for the Advancement and Support of Education awarded a gold medal for the University's Parents' Day Program in a competition entered by colleges and universities throughout the nation. In the yearly awards program sponsored by the Association of American Medical Colleges' Group on Public Affairs, the Office of Alumni Affairs was selected to receive the top award for Premier Performance during 1985 by a Medical School or Teaching Hospital - Alumni. The comprehensive

entry submitted to AAMC/GPA included all of the Medical University's alumni activities and publications.

During 1985-86, membership in the MUSC Alumni Association increased by 15 percent overall, making a total increase in dues-paying members over a two-year period of approximately 50 percent.

The Alumni Student Contact Service held its first orientation session on campus in February of 1986. Approximately 50 alumni volunteers met to learn about the University's student admissions process, loan and scholarship programs, campus development, student activities and facilities and other information of interest to prospective students.

The Joint Board of the MUSC Alumni Association awarded its second scholarship of \$1000 to a student of the College of Nursing at the annual commencement exercises in May.

Medical University Press

Continued demand for printing services resulted in production of over fourteen million impressions which generated in excess of \$500,000 in revenue.

OFFICE OF PUBLIC RELATIONS

Significant public relations projects included improved statewide newspaper and broadcast coverage of University programs and achievements, a planned program of publicity announcing the kickoff of the University's capital campaign, special events programming for the groundbreaking of the Institute of Psychiatry, dedication of the Children's Hospital and more visability for the University's wellness effort through community education projects.

CHARLESTON HIGHER EDUCATION CONSORTIUM

The Charleston Higher Education Consortium includes the Baptist College at Charleston, The Citadel, The College of Charleston, Marine Resources Division of the S. C. Wildlife and Marine Resources Department, The Medical University of South Carolina, and Trident Technical College.

The Consortium's principal activities included coordination of planning for graduate programs; a survey of local industries to

identify research equipment that might be shared with local faculty; supported by a grant from the S. C. Committee for the Humanities, the Consortium continued its Aspen Seminar Program for the Humanities for Southeastern Executives; compiled a directory of non-academic professionals who wish to be considered for part-time positions; and initiated the first comprehensive educational needs assessment ever undertaken in the Tricounty area. A major point of contact with the local community has been forged through CHEC's Community Advisory Committee which continues to offer its support and advice on CHEC activities. Also the Consortium coordinated member review of four degree programs and six certificate programs at Trident Technical College and for three new programs at the Medical University; and courier service among member libraries.

Cross registration resulted in significant tuition savings for 155 CHEC students over the fall and spring semesters. During the year, CHEC's Academic Affairs and Executive Committees reviewed the cross-registration policies, and decided to allow full-time graduate students cross-registered for summer courses to enroll also under the "tuition-free" benefits (Previously, all students cross-registered for Maymester or Summer courses were charged tuition for those courses). Summer 1986 data saw 17 graduate students cross-registered under this new policy. In addition, a total of 91 undergraduate and/or part-time students cross-registered for courses during the Maymester and Summer sessions.

The CHEC "Faculty College" program initiated in 1983 offered two seminars in 1985-86: in October "Nature, Mind, and Self: Earth and Animals in the Evolution of Human Consciousness" was offered by Dr. Paul Shepard, a widely published and nationally known ecologist, and was co-sponsored by the Charleston Chapter of Sigma Xi, the Scientific Research society; in April, Dr. Eugene Rice, an expert on the sociology of the professions and on faculty development, presented a seminar on "Themes in Adult Development: Vitality, Work and Learning."

CHEC-School Systems Partnerships included "ASSIST" (Assessment Services for the Support and Improvement of School Teachers). During its second year (1985-86) its services were offered to sixteen schools in Charleston County and five schools in Berkeley County as well as providing services to 136 teachers.

CHEC has proposed a new project that it is calling the "4Rs" Program (Renewal, Retention, Recognition and Rewards for Pre-College Teachers) and has applied for a grant to support it from the U. S. Department of Education's Secretary's Discretionary Fund. If funded, this project will enable CHEC to improve the expertise, effectiveness and professionalism of teachers, their departments, and their schools.

Other CHEC School Systems Partnerships included the Scholars in Residence Program, The Charleston Area Writing Project (now in its fourth year), and the Summer Work Education Program (in its ninth successful year).

